Cappel To 20040 ALBATROSS Alfatrons

Albahons

Hour: 3:00 P. M. to 24: 53 P. M.

Position: Lat. 36° 49' 00" N Long. 75° 36' 00" W

Locality: Cape Horry

Depth: 19 m Bottom: S, Sh Sample: Mr.

Wind: Direction,

Force, light

Sea: morth

Sky: chan

TEMPERATURES

Thermometer—Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
				1	1	
R 11500		20.5	03	19.63	1	
NZ 20876	muna	in			1	
R 11498	19.62	21.0	04	19.58		
			THE SHE			
	1		1			
	Make and No.  B, S.*  R 11500  NZ 20872  NZ 20876	Make and No.  B.S.*  GAME  67. F  R 11500 1966  NZ 20872 Zanea	Make and No.  B.S. GAMAG  17. F  R 11500 19.66 20.5  NZ 20872 honoring  NZ 20871 marching	Make and No.  13.5. Temp.  14.6. Temp.  15.5. Temp.  16.6. Temp.  17.6. Temp.  17.6. Temp.  17.6. Temp.  17.6. Temp.  18.7. Temp.  18.7	Make and No.  19,466  R 11500 19,66 20.503 19.63	B.S. GAMER B. G. S.

111111			CURRENTS			
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
1					7	
	-			-		

Color of water:

Transparency:

REMARKS: Hove to 2:49 PM. Doewood with mapon lead bent on to heaving line

Depth when bother	3:25	#:00 3,55	Speed  40-#1 Rev.
unbolm	3:25	4:00	
0	3:25	3:55	
0	3127	2,35	
		2100	
	3,30	3:50	
	4:35	4:58	
		4:35	4:35 4:58

11-5314 NOTES

Bottom r meta nets towed 30 min, senface nets towed 20 min.

Other travel towed 15 min, did not reach bottom.

Station No. C 20002 Date: Oct 30

1919

Hour: 8:00 P.M. to 9:20 P.M.

Position: Lat. 36°47' 00" N Long. 75° 06' 00" W

Locality: Caper Henry

Depth: 31 m Bottom: S, S4

Sample: none

Wind: Direction, Sea: mooth Force,

TEMPERATURES

Sky: clian

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	1	69.5F				~	
15	S.W 9383			-		-	
	R 11499	17.25	19.0	04	17.21		
30	R11500	16.30	19.0	07	16.23	V	
	NZ 20872					-	
						-	
						1	
	The same of						

			CURRENTS			
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
				1		

Color of water:

Transparency:

REMARKS: Dounded with enapper & bent on to heaving lime.

### NETS, ETC., USED

Description	Death	TI	ME	Speed
Description	Depth	Down	Up	Speed
Vertical 1/2 meter net	30-0	P.M.	P.M.	
Bottom net	30-0	8:50	9:20	
1/2 meter net	0	town	125	mi
#20 mil	0			

Very with rectical hand Rich meier hand funface net (12m) scanty Rich hand young fishes in bottom net

Hour: 12:00 midnight to /130 A. M.

Position: Lat. 36°44′40" N Long. 74°41′30" W

Locality:

Depth: 93 m Bottom: S, Sh. Sample: 74

Wind: Direction,

Force, Light Air 67

Sky: clean Sea: morth

TI	EM	PI	BR	AT	UI	RES

Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sampl	Bottle used
	64.0F				V	
R11499	17.85	19.0	03	17,82	-	
SV. 9383	-					
NZ 20872	-				~	
R11500	16.60	19.0	07	16.53	-	
SV 9388		-	-		V	
R 11497	10.18	19.0	-,22	9.96		
R11498	11.10	19.0	17	10.93	~	
NZ 20876	-					
		3			- 1	
	Make and No.  R11449  SV, 9383  NZ 20872  R11/500  SV 9388  R11497  R11498	Make and No.  177.80  64.0 F  R11499 17.85  SV,9383  NZ 20872  R11500 16.60  SV 9388  R11497 10.18  R11498 11.10	Make and No.  Reading Temp.  17.80 (64.0 F)  R11449 17.85 19.0  SV,9383  NZ 20872  R11500 16.60 19.0  SV 9388  R11497 10.18 19.0  R11498 11.10 19.0	Make and No.  Resums Temp.  17.80  64.0 F  R11449 17.85 19.003  NZ 20872  R11500 10.60 19.007  SV 9388  R11497 10.18 19.022  R11498 11.10 19.017	Make and No.  Reading Temp. tien Temp.  [17.86] [64.0]  R11449 17.85 19.003 17.82  SV.9383  NZ 20872  R11500 10.60 19.007 16.53  SV 9388  R11497 10.18 19.022 9.96  R11498 11.10 19.017 10.93	\$\begin{array}{cccccccccccccccccccccccccccccccccccc

			CURRENTS			
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
		-				
				14		

Color of water:

Transparency:

Vertical 12 meta net 90-0 AM AM  Bottom net 75-0 1:00 1:30	Description	Donth	TI	Speed	
Vertical 1/2 meta net 90-0  Bottom net 75-0 1:00 1:30	Description	Depth	Down	Up	Speed
	Vertical 1/2 meta net	40-0	AM	AM	
1/2 meter net o towed 20 him	Bottom met	75-0	1:00	1:30	
to net	1/2 meter net	} 0	town	cd 20 in	win

Vertical hand abundant

Bottom net-rich hard salpae & young fishes 12 meter net surface, morthy salpae \$20. surface, security micro. Hour: 3:00 A . M. to 6:00 A . M.

Position: Lat. 36°41'20" N Long. 74° 34'30" W

Locality:

Sample: from mud bag Depth: 336 m Bottom: gn M, 5 Force, / Wind: Direction,

Sea: prooth TEMPERATURES

Depth	Thermometer—Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0		64.0 F				v	
10	R11499	17,90	19.0	-,03	17.87	1	
	S.V. 9383						
50	R 11500	11.05	19.5	-16	10.89	V	
	NZ 20872	# 30	16003				
100	R11500	11,35	16.0	09	11.26	1	
	NZ 20872	11.30	16.07	21	11,09		
150	R11489	12.10	18.0	11	11.99	~	
	SV.9383		-				
200	R 11500	11.40	16.5	23	17.37	V	
	NZ20872		-				
300	R11498	7.80	16.0	16	7.64	1	
	NZ 20876	7.90	18,0	25	7. 65		
	1					1	

			CURRENTS			
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
	31					

Color of water:

Transparency:

REMARKS: Elect solg, inchen, supperhead

			Speed
Depth	Down	Up	Spece
200-0	A		
· 200-0	5;15	5;45	
0 3	oved	25 m	in.
	200-0	200-0 5:15	200-0 5;15 5;45 65thin

Sulf wed Sundand Blanklin scanly som meducins & / clione.

Hour: 8:00 A . M. to 5:30 P . M.

Locality:

Depth: 2029m Bottom: gn SoM

Sample: 112.52

Wind: Direction, E

Force, / Air 71-76-71

Sky: purtly clandy Sea: moril TEMPERATURES

Depth	Thermometer - Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	Bottle used
melas	B.S. #	119.40				P
50	51 9388	(67 F				
	R11497	14,92	21.0	17	14.75	· .
100	R11499	14.1	21.0	14	13,96	
	S.V. 9383	14.1	21.0			
200	R11500	13.4	21.0	-21	10,19	-
	NZ 20872	Comp. too	righ for			1
400	R11498	6.00	21:0	-30	5.70	~
	NZ.20876	6.10	210	35	5.75	
600	R11497	4.90	21.0	35	4. 55	
	5. V. 9388				~	
1000	R 11499	4.20	18,5	26	3.74	1-
	S. V. 9383	4.30	19,0	1		
1400	NZ. 20876	3.81	19.0	34	3.47	
	R11448	3.70	17.0	26	3.44	
1800	R 11500	3.65	16.0	-,24	3.44	
	NZ.26872	3.72	19.0	-,37	3, 35	

CURRENTS Time down | Revolutions | Speed Direction Depth Hour Tide

Color of water:

Transparency:

REMARKS: dues say melm, Lyace vel, 60 11-0115 At noon ran back to position it beginning otation; from noon t 5:30pm. highest NE,

NEIS	, ETC., USED			
Description	Depth	TI	Speed	
Description	nettro	Down	M Up	- Opeca
Vertical 1/2 meles sut	400	4:05	4:17	40 Rev
Bottom nel (cette ent 500 m)	200-0	14,37	5:01	
meternt (able out 300m)	200-0	1		
1/2 mules	10	4:40	5105	
1/2 miles	)			

Diffed from 30 34' 50 14' 21' 00 bets 7:30 AM. to 36 30 00' N - 74'28' 30'

All hands searty would bottom med, which had fain hour copeparts the reguloraids,

1 \$ 6" illy from devicte sp, when

Bottles down, lowest 1800 m, menny travels 9 min, on 200 m per min.

Hour: 10:15 A. M. to 11:10 A.M.

Position: Lat. 33 " Off 15 N Long. ...

Locality: Cape Hatterns

Depth: 36 m Bottom: S, Sh

Sample: 11213

Corrected Temp.

Wind: Direction, WSW Force, 2

Stom Temp.

Sea: Choppy

Depth

Sky: partly downly TEMPERATURES

Correc-tion

Thermometer—Reading

B.S.\* (244.C milus! 176. of 15 NZ 20872 temp too high for them R11500 21/29 200 -.04 24.25 30 R 11498 24.75 25.0 -.03 211-2 NZ 20876 temp too high for them

	CURRENTS								
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction			

Color of water:

Transparency:

REMARKS: Elcel. edgmein, presper lead 11-5111

NETS,	ETC., USED				
Description	Depth	TI	TIME		
	meters	Down	M-Up	Speed	
Bottom neticallo outrion)	25.0	10:40	11:10	30-35 Rev	
1/2 meter	}	#0:40	11:05		

a hommer head house now noted Alongsid, mil a hort and line put over, but will teaplan him.

Date: Nov. / Station No. C 20007

191/

Hour: /:00 P . M. to 3:00 P. M.

Position: Lat. 35° 01' 00" N Long. 75° 14' 00

Locality: Copselforthers, SE from the copy 1

Depth: 223 m Bottom: 5, 5h, pepples Sample: 74:

Wind: Direction, WSW

Force, 2 A11-81-80

Sea: Choppy

Sky: partly woudy TEMPERATURES

Depth	Make and No.	Reading	Temp.	tion	Temp.		used
meters.	43 0 H	127.80	!			W.	
0	(	82.01	-	,		-	
50		27.55	27.5	04	27.5		
	NZ20872	2/2	170		7, ,/-		
100	R11499	16.90	28,0	03	16.85		
100	S.V. 9383	11 92	77 0	-07	24 45		
150	NZ 20876	27. 72	-710	,01	0 92		
200	R 11500	16.34	26.0	23	16.16	-	
	NZ. 20872			-			
					1		
	1						

CURRENTS

Color of water:

Depth

Hour

Transparency:

Revolutions

Speed

Direction

REMARKS: hilled yourse, mother was Mepth of 1st my mongh, 155 m) so his

Tide

the loop, war in may have been 27.55 on 27.60]

NETS, E	TC., USED			
Description	Depth	TI	Speed	
Description	metres	Down	Up.	Dyccu
Verlical 12 meter *	201			hore io
Bottom set ( carlout 200 m)		2:35	3:00	24 Rev.
12 meter	0	2:35	3:00	do
		1		

\* On find truit viah water britten in failer to the son the paid were the sone time in vertical net, to some depths as first time; as they had to a more depth the het sons herved in, the time up of net is not secured

Villical net fairly abundant Bother net coppered, projette Ourface nots occurting.

# Hour: 7:35 P. M. to /0:50 P. M.

Position: Lat. From 311° 54' 36" NLong. 75° 07' 75" 75° 02' 00" Vi

Locality: 15 mi, S.E. from Remard Phoal, Cape Hatterer

Depth: 1060 ? Bottom: Sample:

TEMPERATURES

Wind: Direction, SW Force, fresh (3)

Sea: choppy Sky: cloudy

Depth nullus	Thermometer—Make and No.	Reading \$24.7	Stem Temp.	Correc- tion	Corrected Temp.	Bottle used
50	S.V.9383		1.		Annual Control of the last of	-
	R11499	26,44	25,0	+.01	26.45	
100	R11500	25,62	25-5	04	25.58	
	NZ. 20872	protes on the				
150	R11418	26.39	25.0	+.00	26.39	~
	NZ 20.876					
200	R11000	18.20	25.0	17	18,03	2
	NZ20872 R11497	16.67	25.0	23	16.44	
-00	SV 9888 R11499	19.14	25.0	24	12.90	
800	SV 9383 R11498	12.05	26.0	29	11.76	1
1000	NZ 20876 R 11500 NZ 20872	9.18	25.0 26.0 URRENTS		8.86	
Depth	- Hour-	Tile-	-Time down	-Revolution	a Speed	Direction

Depth — Hour Title— Time-down - Revolution - Speed Direction 200 R 11499 23.70 25.0 -.04 25.86 SV 9383 23.10 25.0 -.06 25.04 NZ.20876

Color of water:

Transparency:

DEMARKS: una - ig. when sigs and as be shot in-an tout mother relationships of bound the line of the bound of the line of the company in to are whether that thought off mine! Itel, 100 of forms ine well sign and one in it was and sign.

NETS, ETC., USED

	Depth	Speed		
Description	Depth	Down	Up	Speed
is not maked				
w ne				

11-5314

NOTES

Messenger (doubled) Craveled 400 m. in 2 min, 15 sec. Wire, with water bottler) at angle 7 40° about ),

V

Station No. 20009 Date: Nov. 9 1919 Hour: 5:25 P. M. to 5:40 P.M. Position: Lat. 29' 55' 30" ... Long. 6. Locality: Off A. augustinie, I'la. Depth: 17 mitter Bottom: 5, 5h. Sample: no Wind: Direction, NE Force, slift bruge Air Sky: partly closerty Sea: Choppy TEMPERATURES Correc-Thermometer— Reading Make and No. Stem Depth B. S. (25.76 C) meter 77.50F 0 14 to: SV 9383 R11499 X24.57 23.0 1.02 24.59 CURRENTS Time down | Revolutions Tide Speed Direction Depth Hour

Color of water:

Transparency:

REMARKS: Heaving line, mapper lead.

11-5314

NETS, ETC., USED

	Depth	TIT	ME	Speed
Description	Бери	Down	Up	
2.175				
no nets				

11-5314

NOTES

Station No. 20010 Date: Nov. 10 1919

Hour: 1:38 P . M. to 1:55 P . M.

Position: Lat. 27°34' 00" N Long. 80° 10' 00" W

Locality: Off Indian R. Inlet Gury

Depth: 18 meters Bottom: J, 5h. Sample: 120

Wind: Direction, ESE Force, stiff huge

Sca: Choppy Sky: partly loudy

TEMPERATURES

Depth	Thermometer-Make and No	. Reading	Stom Temp.	Correc- tion	Corrected Temp.	W. Sample	Bettle used
0	177.51					1	,
16		0			_	1	46
	17/1497	x 24.85	23.5	-04	24.81		
						1	
			,				
	1	:	,				
				1			
			HDDENTS			-	

Depth .	Hour	Tide	Time down	Revolutions	Speed	Direction
}						

Color of water: Green Transparency:
REMARKS: Heaving Lin, mappe Find

11-5314

NETS, ETC., USED

	Depth	TIM	AE.	Speed
Description	Depin	Down	Up	Specia

11-5314

NOTES

Hour: 3:30 P.M. to 4: 20 P.M.

Position: Lat. From 27° 34' 00"N Long. 79° 55' 30" N To 27° 37' 00"N 19 56' 3 Locality: // mi & from Indian River Inlet Grong.

Depth: 85 in Bottom: 5, 5h

Sample: 20

Wind: Direction, ESE Force, stiff breeze Sky: cloudy chowers)

Sea: choppy

TEMPERATURES

Depth	Thermometer - Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0		80.5					
	SV 9388 R11497 SV 9383	x 26,20	24.0	- 63	26.17	-	14.6
	R11499 NZ20872	x 26.15	24.0	+02	26.17	~	#4
	R 11500 NZ 20876	× 25.90	24.0	401	25.91	~	45
	R 11498	x 25.65	24.0	+01	25.66		
	:						

-			CURRENTS			
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Blue

Transparency:

REMARKS: Eslect. sar, prosper lead

11-5314

Wire ( with bottles) 215

To a della se	Danis	TII	VIE	Speed
Description	Depth	Down	Up	Speed
Vertical (1/2 m)	45			
Muadag	6:			
	1			

11-5313

NOTES

Vertical hard scanty micro. Mudby few shells

Hour: 7:06 P . M. to 9:00 P . M.

Position: Lat. From 27° 34' 05' N Long 79° 36' 00" 10

To 27° 41' 30" N 79° 36' 00" 10

Locality: Imi cappin adia R. Juli may

Depth: 432 miles Bottom: gy M.S. Sample: 1/254

Wind: Direction, ESE Force, Suff bruge

Sky: partly cloudy Sea: choppy TEMPERATURES

Depth	Thermometer Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Buttle used
metirs	B.S.Z					Þ	
٥		82.0				~	
50	NZ 20876	0	-	1		/	#
	17 114 98	127.19	23.5	+06	27.25		
100	NZ 20872	0				-	4
	R11500	X24,33	23.5	-01	24.32		_
150	SV 9383	0				-	43
	R11479	x20.64	23.5	-47	20.62	,	
200	SV 9383	0				1	TG
	R11497	×17.89	23.0	-16	17.73	,	**
-50	· V /388	0				,	U
	R11497	x 16.42	24.5	- 22	16.20		44
300	SV 93 43	015.44	26.0	22		/	10
	R11449	15.40	24.0	- 22	15.18		
350	NZ 20872	0			~	1	11.4
	R 11500	X12.04	16.0	-30	11.74		
400	NZ 20876	08.94		- 36	8.58	/	'Z"
	R11498	1 8.95	CURRENTS	- 34	8.61		
Depth	Hour	Tide	Time down	Revolutions	Speed	D	irection

Depth	Hour	Tide	1	Revolutions	Speed	Direction
						-

Color of water:

Transparency:

REMARKS: Lucis ods, Diplu vod, vall since

Wire with bottles angle 25°

	20.00	TIT	ME	Speed
Description	Depth	Down	Up	Speed
Vertical (1/2 m)	250			

11-5314

NOTES

On heaving in reclaid ness, a sudden not! The day, invest the rive, incide public above iny, + ing, hed + 25 lb. since cassied . any

## Hour: 12:23 A.M. to 1:55 A.M.

Position: Lat. From 27° 34' ot" N Long. / 19

To 27° 37' 36" N 79° 11' 05" W Locality: 57-53(4) mi. E from Johlin R. Inlet bury, north & Lieb Behome Band ; resten to. Depth 418 from Bottom: 5, sh Sample: 1

Sample: 140

Wind: Direction, E

Sea: Choppy

Air 77-76 Sky: cloudy ( showns)

Depth	Thermometer Make and No.	Reading	Stem Temp.	Correc-	Corrected Temp.	W. Sample	Bottle used
0		127.75				~	
20	NZ20876	0				Y.	5
	R 11498	x 27.30	23.5	+06	27.36		
60	NZ.20872	0-				1	4
	R 11500	x 21,04	24.0	+04	27.38		
	51 1383	0	:			1	3
	R11444	x 26.40	23.5	+04	26.44		,
	SV 4388	0		-		1	6
	K11447	1 42,24	24.0	-10	22.24	1	,
	SV 9388	0		177	10 70	V	.60
	R11447	×19.96	-200	6 (	19.79	/	-,
110	DV 13/3	0		.7	12.24		3
.,	R11491	×11.94	26.0	-11	11.11	/	
200	NZ 20872	1	21 -	1 9 1 1	12 11		24
30.	NZ 20876		26.0	261	11.11	1	~
030	R11498	×16.40	uppfering	-22	16.18	1	
Depth	Hour	Tide	Time down	Revolutions	Speed	l ni	rection

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
			'			

Color of water:

Transparency:

REMARKS: Lucas str. sigher od, in it is inter It this tight is surined quistioned; energice tendre at very wate when beptin on whart runn love 200. 500 froms,

NETS, ETC., USED

1.0	Donath	TIM	ME	Speed
escription	Depth	Down	Up	Speed
	i			

11--5314

NOTES

Hour: 7:18 P.M. to 7:40 P.M.

Position: Lat. 25° 34' 30" N Long. 80° 04' 00" V

Locality: Forvey Rock

Depth: 100 m Bottom: S sh

Sample: 700

Wind: Direction,

Force, /

Sea: prooch

Air 76 Sky: partly cloudy

		I E IVI	PERALURE	3		
Depth ritins	Thermometer - Make and No.	Reading - 26.9 80.5	Stem Temp.	Correc- tion	Corrected Temp.	Bott use
	SV 9388 R.11497	x 26,38	24.0	-02	26.36	16
	NZ 2087Z R 11500 NZ 20876	x 26.44	25.0	-01	26.43	5
7.0	R11498	x 24.60	24.0	T03	24.63	V - A
		i				
				l 1 i		

CURRENTS							
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction	

Color of water:

Transparency:

REMARKS: Elect. sdr, Digber rod

NETS, ETC., USEI

	Depth	TIME		Speed
Description	Dopin	Down	Up	

11~5314

NOTES

Hour: 8; 05 P. M. to 9:55 P. M.

Position: Lat. From 25° 34' or N Long. 10° 5,' To 25° 36' 00"N 79° 5-7' 30"1

Locality:

Sea: morth

Depth: 322 m Bottom: S, gy M

Force, / Wind: Direction, E Air 76-75

Sky: partly cloudy

TEMPERATURES

Depth	Thermometer-Make and No.	Reading (26, 7	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0		80.0				-	
~	CV 43 83	1					2
70	SV 9383 R11499	x 26.34	24.0	-02	26.32		7
100	SV 9388	0			***	~	6
	1711417	1	25.0	-12	22.51		, ,
	SV 9388		2.4	-21	1/ 22	~	6
	R11497 SV9383			- 41	16.33	-	3
	R11499		25,0	-28	10.17	- "	
250	NZ 20872	0 4.54	25.0	-42	9.12	1	4
	R 11500		25.0	-32	8.97	4 1	-
200	NZ 20876 R 11498		25.0	-36		-	J
	1/1.7/8		3. 0	, 50	0,00		
			TIP D TINIMO				

		1 -14	1	1 10 4 11		
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
						-

Color of water:

Transparency:

REMARKS: Lucis sh, sigs roll

11-5314

Messenger 6: illes down 50 miles in 10 peco.

NETS,	ETC., USED			
Description	Depth	TIME		Speed
Description	meter	Down	Up	Speed
Vertical (12m)	240-0	P	M	
Bottom red ( a 4 out foo m)	otton o	4:20	7:55	
1/2 meter * 20	}	9:15	9:40	

Bottom ned towed 30 min Ordfar neto towed 35 min

Vertical boul rich copyride, sacillar, young fish Bottom hard bais provides, young fish Dunglar hard fish in)

Hour: 12:12 A .M. to 2:51 A .M.

Position: Lat. From 55' 34 00" N Long. 790 45' 3" To 25° 40' 30" N 79° 45' 30" W

Locality:

Depth: 450 pm Bottom: 44 M Sample: 11/1 56

Wind: Direction,

Force, 2 A1-74-78

Sea: proth

Sky: cloudy TEMPERATURES

Depth nelvo	Thermometer - Make and No.	Reading (27.75)	Stem Temp.	Correc- tion	Corrected Temp.	Bottle used
	NZ 20876 R11498	× 27.26	26.5	-02	27.24	15
	NZ 20872 R11530 SV 9383	x 25.92	26.5	-05	25.87	13
	R. 11499 SV 9388	x 21.18	26.0	-12	21.06	V.6
300	R 11497 E1 1388	x 18.10	25.5	-22	17.88	V 6
400	R11497 R11499	x 14,91 0 11,95 x 11.87	26.0	-26	14.65	1 3
600	R11500	o 7.42 x 7.33		-45	6.97	1 4
800	NZ 21876	16.22	24.5 QUERENTS	-40	5.90	15
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

REMARKS: Lucus -1, in

11-5314

Description	Depth	Down   Up	Speed
Vertical (12 m)	800-0	AM	
Bollon met cable out 100 Miles met (" " 200)	m) 350-0	2:05 2:30 2:05 2:40	
1/2 meter # 20	30	2:02 2:27	

Bollom + mela rel, lowed 30 min. Ourface nels lowed is min.

Virtual Land , onty - net facilit in brill

Bollom & meter hands pair

Durface Lines scenty

Hour: 5:18 A . M. to 7:46 A . M.

Position: Lat. Fram 2 [ 33 38" N Long. 74" 27 27 30" W

Locality:

Depth: 877 m Bottom: Co, S, Sh Sample: 41257

Wind: Direction, N Force, 2

Sea: choppy to mosth Sky: grading

		TEM	PERATURE	S			
Depth	Thermometer Make and No.	Reading	Stem Temp.	Correc-	Corrected Temp.	. Sample	Bottle used
retus	B. S. ~	_528.1	1			N.	11
0		182.5				/	
50	NZ 20376		,		-	/	5
	R11418	1	26.5	-02	27.23		
100	NZ.20872	0	7			~	4.
	R11500	x 27.04	27.0	-04	27.00		
150	SV 9383	0					.3
	R11499	x 23.32	26.0	-08	23.24		
195	NZ165868	020.61	26. 0	-26	20.35	V	6
	R11497	x 20.50	26. 0	-18	20.32		
300	WZ 165868	017.05	25.0	-27	17.36	V	6
	R11497	K.67.51	25.0	-22	17.29		
400	SV 9383.		-	-		1	3
	R11499		25.5	-22	14.52		
100	NZ 20: 12	0 9.70	2.0	-41	9.29	1	4
	R 11500	x 9.59	25.0	-32	9.27		
800	NZ 20476	0 7.33	.25.0	-39	6.94	~	5
-	111498	x 7.29	URRENTS	-35	'.		
Depth	Hour	Tide	Time down	Revolutions	Speed	Di	rection
					- 1	-	

Debtu	11001	1140	Time down	reconstinus	Direction
				1	
	1				

Color of water: Blue

Transparency:

REMARKS: Lucro, Mr. Oigs. od.

Description	lon Depth		TIME		
Description	meters	Down	Up	Speed	
Virtical (1/2 m)	800-0	A.	M,		
Bottom net cable and soom	700-0	7:04	7:46		
Buter nut " " 300m	) 200-0	7:04	7:38		
1/2 mites #20	}	6:55	7:20		
\$20	1	6:55	7:20		

Bottom - miles rets lowed 30 min. suchen site town . min.

Virtual and reanty Vivilon + meter hands proper mets searly micro.

a share (Thalausothinus randeletii?) was taken at this station 8 juv. Total length 150 cm. Stomach contents:

Cottlefish beak

Crustacean shell (portion).

The jaws, and, per total .... your 100m quare was min should Tin Tag # 11258

Notes below not to be entered in aredgetable or on station-record sheets.

Measurements of The shark mentioner above: Liength 150 cm. Measurements in

Snout-1st dor. 48 centimeters) Front 1 dor - Fr. 2nd dor. 48

2ndor-cauditip 13

Height 1st dor. 15

" 2nd dor. 4

Pedolal length, 23.5

Front pect - Fr. ventral 42

" ventral - Fr. anal 23.5

" anal - caudipit 13,5

Ventral (length) 6 Anal "

Upper lobe and dength 40.5 -caud. Tip 8.5 Caux. notch -

Hour: 6:18 P . M. to 7: 5 2 P . M.

Position: Lat. 10 24° 25'00' N Long. 81°

Locality: Off Dand Key, Fla.

Depth: 117 m Bottom: 5,54 Sample: 4/1259

Wind: Direction, NE

Force, / A11-84-78 Sky: partly cloudy

Sea: smoll

Depth meters	Thermometer - Make and No.	Reading . \26.\frac{9}{80.5}	Siem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
30	NZ 165868					~	6
/	SV. 9383		26.0	-07	26.27		3
40.	R11499	1 25.97	26.0	-03	25.94	<i>.</i>	
90	NZ 20872		366	+	2001	-	4
100	NZ 20872	, ,	23.3	-15	20.94	-	4
	R 11500		24.5	-13	19.26		
			1				
					,		

Hour	Tide	Time down	Revolutions	Speed	Direction
	Hour	Hour Tide	Hour Tide Time down		

Color of water:

REMARKS: Elect. pds, mapper less

Description	Depth	TI	Speed		
Description	netus	Down	Up	cyreca	
Vertical ("12 meter)	100-0	P	M		
Bollow mt calle at 1 som.	100.0	7:18	7:52		
1/2 mites	} 0	7;15	7:40		

Bottom at lower 30 min. Auffau nets lowed 25 mm.

Bollow and rich for this region . Varleed rout with " " (going fisher, wato) 1/2 mila rich

Station No. C 20019 Date: Nrv. 15-16 1919

Hour: 9:42PMNOVIEM. to 12:53AM NOV. W.

Position: Lat. From 24010' 36" 11 Long. 823 001 00 To 24"07'30"N 81° 58

Locality:

Depth: 309 for Bottom: gy M Sample: 4 11260

Wind: Direction, N.E. Force, 1-2 A1-76-73-77 Sky: dia

Sea: morth

		TEN	IPERATURE	S		
Depth	Thermometer Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	Bottle used
0		80.0				-
50	NZ 20876.	x 25.90	25.5	-01	25.89	5
100	NZ 20872	0	3., 6	11	20.45	V 4
150	SV9383	x 20,56	24.5	- 11	20.93	1 3
200	R11499 NZ165868	1	24.0	-14	13.35	6
	R 11497	× 13.61	23.0	-24	13.37	
3.0	NZ 165868	×11,30	23.0	-29	11.03	6
400	519383	010.61	23.0	-24	town	3
500	R11499 NZ20872	10,54	23.0	-24	8.81	v 4
6	R 11500 NZ 20876	× 9.12	23.0	-28	8.84	1 3
	R11498	1-	URRENTS	- 34	7.58	1.1
Depth	Hour	Tide	Time down	Revolutions	Speed .	Direction

Color of water:

Transparency:

Denth		ME	Speed
	Down	Up	Speed
600-0	P.M.	A.M.	
600-0	11:50	12:52	
200-0	11:50	12:40	
0	11:35	12: Midt	
	200-0	Down P.M. 600-0 11:50	melia Down Up

Bottom set loved Theren . Meter net loved 41 min. Purpose nets torond is min.

faired and with Bolim ned pair - regestions, your ish, opined, I wip Nation rand with mostly from 100-0 meters, Durface Lands occurly 1 Volugues non-o- van lenon

Hour: 2:00 A . M. to 5:08 A . M.

Position: Lat. From 23° 58' 30" N Long. 81".51" To 23°56' 36" N 81"57

Locality:

Sea: morth

Depth: 996 miles Bottom: gy N

Tintas Sample: # 11261

Wind: Direction, NE Force, 1/2

Sky: and a see . county

		TEM	IPERATURE	S			
Depth	Thermometer Make and No.	Reading	Stem Temp.	Correc-	Corrected Temp.	W. Sample	Bottle used
	70.0	527.5			7	-	
0		(81.5					
50	NZ 20876	p -	1		-	-	5
	R11498	27, 32	27.0	-02	27.30		
100	NZ 2027	0				/	4
	R 11500	2305	26.0	-10	22.95		
200	5V 9383	15.22	25.0	-		/	3
	1711499		25.0	-20	14.96		
301		11.48	24.5	-31	11.17	1	6
	R18497		24.0	-30	11.16		
// A A	NZ 165868		25.0	-32		~	1
700	R11497	-	24.5	-33	9.77		
_				- 3.5	4-12	. /	3
00	3V 9383			7 01	0 01	-	
_	1711499		.1	- 29	9.06		
700	NZ 20872			-47	6.91	V	4
		× 7.31		-36	6.95		
450	N2 20876	0 6.10	24.0	-40	5.70	V	5
	171498	x 6.02	URRENTS	-33	5.69		
Depth	Hour	Tide	Time down	Revolutions	Speed	Di	lrection
						-	

Color of water:

11-5314

REMARKS: I was the Dig Wire with sottles at ungle of

Description	Depth		TIME		
, Description	miles	Down	Up	Speed	
Bottom ned - 6 - 1000m			5:08		
meter is income	200-0	3:52	4:50		
1/2 meter	0	3:40	4:40		

Polis truly nets lowed I'm August I'm.

Bollon hand secondary mules hand rough with outpare mules rich

to serving.

V

Station No. C 20021 Date: Nov. 16

1919

Hour: 7:08 A . M. to 10:27 A . M.

Position: Lat. From 73° 42' 36" N Long. 87' 66' 3 To 23° 38' oo" N 82° 08' 80"

Locality:

Depth: 1645 miles Bottom: gy M, Pter Oz Sample: #11202

Wind: Direction, NE Force, 2
Air 77-80

Sea: Choppy Sky: partly Londy

Depth	Thermometer—Make and No. B. S. #	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Boitte used
0		182.5		1		V	
50	112 20872	0	1			V	11
	R 11500	* 27.5+	25.0	+02	27.72 ?		~
	NZ 20876			-		V	5
	R11498	x 26.53	25.0	+01	26,54		
200.	NZ 20876.	0	-	-		~	5
	R 11498	x 18.97	25.0	-14	18.83		
300	NI 258 12	a				F	4
	R11500	15.34	25.5	-23	15.11		
400	SV 9383	6.11.43	26.0			V	3
	R11499		26.0	-28	11.07		
6001	NL165868	0 8.50	-5.1	-31	8.23	V	_
	R11447	8.56	J. C.	-37	8.19		
500	NZ 165868	06.15	25.0	-30	6.45	V	_
	R11497	x 6.72	23.5	-37	6.35		
1000	SV 4383	.6.21	25.5		a granting	~	L
	1114991	7 6.100	URRENTS	1-36	5.74		
Depth	Hour	Tide	Time down	Revolutions	Speed	Di	ection
1300	WZ 20872 0	5.73	26.5	-51	5.22	~	1
	X11500 x		26-0	-41	5.32		
1600	WZ208760		25.5	-45	4.26	-	5
	R11498 x		24.5	- 39	4.29		
				- 1	1		

Color of water: Blue

Transparency:

REMARKS: The es sets, things, od hom it had in, with looking or trading not more than it had in, will look of a sen

Description	Depth	and the second second second second		
	melus	Down	Up	Speed
Vertical (1/2 meter)	500-0	A	/×1	
Bollmard ( able and 600 m)				
Meter set (" " 300 m)	200-0	9:45	10:20	
1/2 meter	0	9:55	10:15	
# 20	0	9:45	wils	

11-514 red Cound 30 min.
1/2 meter net level 20 min.

Vertical Land with Bollon was searly Buter was very with Dunfan Krubs permity

In confession with mus of cart platin, these had nell illesting in descent of agenciens with the approach of light.

Hour: 11:45 A. M. to 1:49 P. M.

Position: Lat. From 23° 29' 415" N Long. 80° 111' To 23° Z8' op"N 82° 12' 36" W

Locality:

Depth: 1681 rules Bottom: gy M, Pter Do Sample: # 11265

Wind: Direction, NE Force, 2
AIR 81-80

Sea: slightly choppy Sky: pailly cloudy

		TEM	PERATURI	.S		
Depth reters_	Thermometer Make and No.	Reading \$26.6	Stem Temp.	Correc- tion	Corrected Temp.	Bottle used
50	NZ 165868	6		-		16
	R11447	x 21.57	21.5		27.50+	-
100	NZ 20876	4				15
	1711498	x 26.51	47.5	-05	26.46	
200		6		+	are the same of th	15
	R11498	4.	26.0	-14	20.32	
300	NZ 20872			,	4	V 4
	1711500	x 16.37		- 24	16.13	
		0 12.82				3
	R11499			-26	12.47	,
		8.18		- 33	8.45	6
	17/1497	x 8.77		-38	8.39	,
000	N2/65868	1 .	26.5	-32	6.43	6
	#	x 6.70		-42	6.28.	1 3
1000			26.5	-38	5.43	3
	VR114991	7	- (	/	\	
Depth	Hour	Tide	Fime down	Revolutions	Speed	Direction
1300	NZ 20872	5.28 3	27.0	-53	4.75	14
		c S. 25	26.0	-42	4.83	
1600		4.69	26.0	- 46	4.23	5
	R11498 x	4.67 =	520	- 40	4.27	
						1
					1	

Color of water: Blue

Transparency:

NETS, ETC., USED

Description	Depth	TIT	TIME	
Description	Depth	Down	Ab	Speed

11-5314

----

Hour: 9:35 A . M. to 1:41 P . M.

Position: Lat. To 21°50′ 00″N Long. 85° 08′ 00 ″W

Locality: Off Havana, Colon

Depth: 1270 m Bottom: gy M Sample: 11260

Wind: Direction, NNE Force, 2 Air 80-82

Sea: Choppy Sky: pully cloudy

		TEM	PERATURES	3			
Depth melu,	Thermometer - Make and Ng.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
. 0		(82.0				1	
2 50	112 1658680		-		-	V	6
	R11497 5		27.0		17.20+		~
100	NZ 20872					~	4
200	R11500 x		2.7.0	-02	26.70		
1.	Sv9383			. 5	00 170	~	
	R11499 x		26.0	-0/	23.59		,
	NZ165868		26.0	-27	18.95		6
. 51	NZ 165868 0		26.0	-21	18.94		1
	R11497 X		26.0		17.10		
. 2	SV 7383		26.0	-	7.1	~	3
	R11499 X			-27	11.67		
1 900	NZ 208720	7.20	27.0	-50	6.70	~	21
st	R 11500 x	7.11	26.0	-38	6.73		
1200	NZ 208760		76.5	-46	5.05	~	5
	R114989	J. 49c1	JRRENTS	-40	5.09	1907	-

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Blue

Color of water: Blue Transparency:

REMARKS: Luca sols, Sigs well 11-6014

Wir (bottles) augle 40 (1: That) - 45 (2 nd st.)

Description	Depth	TIN	Speed	
Description	meters	Down	Up	apeca
Vertical (1/2 meter)	600-0	P	m	
rete not ( " 1300 m)	1100-0	12:40	1:40	
1/2 miles 3		12:30	1:00	

all net, towed 30 min.

the clamp, holding meter net, shift down the win to the single, marking the meter net round at some depth as bottom net.

Victical and ourface hands ocarity Bottom + mute hands ( sammarth) faircopepool, shrip, lanter fishe. Hour: 1:06 P. M. to 6:10 P. M.

Position: Lat. 70 21°50'00" W Long. 85°08'00" W

Locality: C. Can andonio, Caba (Gucatan Channel)

Depth: 1910 pm Bottom: COS

Color of water: Blue

REMARKS: Lenca, poly, Organia

Sample: 200

Wind: Direction, NNE Force, 1/2

Sea: slightly chippy, Sky: clear to cloudy TEMPERATURES

0 100 0000 0000 0000 0000 0000 0000 0000 0000	2/
0011208120	
B11500 x 27, 32 27.0 -04 27.28	
10011220816.	5
R11498 x 27.30 27.0 -02 27.28	
2001/22087/0:	5
R11498, 21.19 26.0-12 21.07	
300NZ208726	4
R11500 17,90 26.0 -20 17.70	
	2
R11499 15.80 26.0 -21 15.59	-
600NZ165868 1/1,25 26.0 -33 10.92 V	1
R11497 11.23 25.0 -32 10.91	6
	1
1311497 7.16 26.0 -42 6.74	5
1000 S V 9383 .	-2
111499x 5.20 GURRENTS - 50 4.00	
Depth Hour Tide Time-down Revolutions Speed Dre	ellen
1300 NZ 208720 4.70 26,0 -51 4.19	14
R11500 4.65 26.0 -43 4.22	/
1600 NJ 208760 11.55 16.0 -46 4.09 V	5
1811498 x 41.52 25.0 - 40 4.12	
1	

Transparency:

11-5314

NETS, ET	C., USEL
----------	----------

Description	Depth	TIME		Speed
Description	Depth	Down	Up	Specu
In (ag fram) H mudberg (att att 2743m. 07 1500 fms.)	bottom	P.	6110	

Land lowed 15 mm

I lantem pich I shrimp I price crustocean shell.

On heaving in, at 10 from about the mills the vine looped and fouled, can sing delay of 15 min. It was found that the mud bag had carried away and lake had been picked up in the net.

note below not the entered i dredge lable or in station . sheet ; ; Carcharines? limbetus of (ship' pids)

Jaws and section of

Skih preserved (nn 749 = ..

hength 141 cm Head 27 Shout - 1st dor 48

Base 1st dor 11

1st dor - 2nd dor 33/2 Base 2nd dor 3

2nd dor - caud notch 8

Upper lobe caud 38

Lower " caud 17

. Pectoral 22/2

Height 1st dor 14

2nd dor over unal Pertoral reaches under

front of 1st dor

Anal strongly concave on outer margin

2nd dor and anal produced

No Spiraeles

Reproductive organ: inactive

Station No. C 200 15 Date: Meso, 22-23 1919 NUV 22 Hour: 9:45 P . M. to 1:55 A . M. NOV 23 V 85°39'00" Position: Lat. 70 21°44'30" N Long. 85°39'00" W Locality: Gucatan Channel Wind: Direction, E Force, 2-Sea: heavy swell Sky: cloudy, light shower TEMPERATURES Thermometer - Reading Corrected Temp. B.S.\* (21.1 meter 50 NZ 208 12 . R11500 x 27.45 27.0 -03 27.42 100 NZ 20876 0 -5 R11498 x 27.41 27.0 200 112 20876 6 R11498 , 20.71 26.0 -13 20.08 300 NZ 20872 0 R11500 x 18,19 26.0 -19 18.00 3 400 SV 9383 6 R11199 x 15.72 26.0 -21 15.51 600 N2 165868 610.57 25.0 -32 10.25 R11497 10,52 25,0 -34 10.18 800 NZ1658680 1,55 26.0 - 32 7.23 R11497 x 7.51 21,0-39 7.12 1000 SV 9383 0 5.33 R11499 x 5.70 CURRENTS - 37 Hour Tide Depth Time down Revolutions Speed Direction -53 4.28 1 1300 12 20872 0 21.81 26.0 R11500 x 4.76 26.0 -43 4.33 1600 NZ 20876 0 11.59 25.5 -45 4.14 1 R11498 x 4,56 25.0 -40 4.16 Transparency: 11-5314

REMARKS: Lucas ods, Digs rod On beginning to son of, wire parted, not and printer carried away. Wire (boller) angle 150 (Messenger Grand 200 meles

1 . acc 1

Donth	TI	ME	Speed
meters	Down	Up	Specu
5000	1	71	
1600-0	12:55	1:53	
0	12;50	11:20	
	5000	Depth Down  Sou 0  1600 0 12:55	Soo 0 12:55 1:55

Meter + surface nets towned 30 min Bridle of # 20 nut parted, not carried array Vertices hard security Muter hard fair 1/2 meter hard (surface) security

copepord, shrings, I lanten fish.

during the might and men preserved, (Tintag #11266)

Hour: 5:32A . M. to 10: 20 A . M.

Position: Lat. 70 - 21° 41' 00" N Long. 86° 08' 30" W

Locality: Gucatan Charmel

Depth: 955 for Bottom:

Sample:

Wind: Direction, N Force, 2

Sen: heavy swell Sky: partly cloudy TEMPERATURES

				***			
Depth meters	Thermometer Make and No. R. S. #	Reading - \$28.1	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
	NZ 20876 R 11198	27.31	21.0	-02	27.33	-	5
1.00	SV,9383 R11499		26.5				3
	NJ 165868 R 11497	1	1	-26	18.79		6
300	N2 165868 R11497	17.10			17.32	2	6
٠٠٠ .	SV9383 R11499	15,29	26.0	-22	15.07	-	3
5.	NZ 20876 R11498	11.81	25.0	-28	11.53		5
	N2161868	7.118	26.0	-32 -41 -48	7.08		4
	R115-00		URRENTS	-37	6.06		
Depth 1300	NJ 20872 .	J. A.C.	7.6 o	Revolutions	Speed 4.54	Di	ection
1 .	R11500 x		26.0	-42	4.50	1	5
	R 11498	4.63.	21.0	- 40	4.23		

Color of water: Blue Transparency:

REMARKS: Lucas sol Digo rod With to from mic out, cool was carried 1, heavy sea mile propellor and last

Wine ( bottle, ingle 20" 18 shel, 18"

Description	Depth	T	Speed	
Description	meters	Down	Up	Speed
Virtual (1/2 meter)	500-0		M	
Bottom mit(cable out 1400 m) Miter mit (cable out 400 m)	6tton 0	9:11	10170	
1/2 metr }	. 0.	9:00	9:45	

Bottom + meter mets towned 30 min Duy an net, towned 45 min.

Vieteral hand accounty Bottom hard with - fisher, bottom shrings Meter + surface hands rech chifly meiro,

The amen't appeared to be be tween 300 and 400 meters down, as indicated by straying 7 the cable.

Hour: 2:00 P . M. to 4:05 P . M.

Position: Lat. 70 21°35′30″ N Long. 76° 35′00″ W

Locality: Cape Catoche, Merica ( Specular Channel )

Depth: 30 for Bottom: Co RK

Sample:

Wind: Direction, NNE Force, 1

TEMPERATURES

Sea: smooth

Sky: partly claudy

Depth	Make and No.	27.75	Stem Temp.	Correc- tion	Temp.	W. San	Bottle used
		(82.0				~	
9	NZ 20876 P 11498	× 27.12	27,0	-03	27.09	1	-5
70	NZ 165868 R 11497	6				~	6
		1					

,					
Hour	Tide	Time down	Revolutions	Speed	Direction
	Hour	Hour Tide	Hour Tide Time down	Hour Tide Time down Revolutions	Hour Tide Time down Revolutions Speed

Color of water: Blue

Transparency:

REMARKS: Eclar ods, praying him

Depth			Speed
	Down	Up	copeed
25.0	2138	3109	
	2:40	3:10	
ottorn	3:42	4:05	
		0 2:40	25. 0 2138 3109  0 2:40 3110  4 bottom 3:42 41:05

Bottom + purpose net, tower 30 min Beem travel toward 18 min

Bottom + surface hands nich. Beau trans algae, hydroids, mellusts, soprace of fich (1117)

Date: 74, 24 Station No. C 20028 191 9 Hour: 3:27 P. M. to 8:05 P. M. Position: Lat. 7. 23° 47' 30" N Long. 84° 23' 00 84° 23' 00 Locality: SE of Sty Lortugas Sample: #//27) 2842 miles and Cl Wind: Direction, F Force. / A11-81-77 Sky: partly clandy TEMPERATURES Bottle Thermometer— Make and No. Depth Reading B.S. \*\* meters 526.1 82.5 0 50 NZ 70876 R11498 27.20 27,0 -02 27.18 100 NZ 20872 R11500 27.22 -04 27.18 2001220876 R11498 22.18 26,0 22.08 300 NZ 20872 26,0 17.61 R 11500 17.81 -20 400 SV 9383 R 11499 14.98 16.0 - 22 14.76 600 NZ 165868 9.85 25.0 -33 9.52 R 111197 9.86 21.0 -35 9.51 900 NJ 168868 6.56 21.0 -30 6.26 R11497 6.57 25.0 -40 6.17 1200 SV9383 5,15 -36 1711499x 5.5/ CURRENTS Depth Hour Tide Time down Revolutions Speed Direction -52 432 WI 20872 . 11.84 26.0 1711500 4 4.78 25.0 -40 4.38 1800 NZ 708760 11.63 26.0 - 46 4.17 R 11498 4.61 25.0 -40 4.21

Color of water:

Transparency:

Wire ( bottle ) must 200

11-5314

Description	Depth	TIME		Speed	
Description	meters	Down	Up	Opecu	
Seite ral (1/2 me ter)	500 0	PI	34		
Bottom mil (cable out 1800 m)					
Meter set (all of 300 m)	200-0	6:37	7:17		
1/2 meter 1 1 20		6:35	7:10		
,					

Bottom & meter nets towned 30 min Durface nets towed 35 min

Vullical hand occurty Bollow, incie and senfare hand, rich

On heaving in bollow net, the last so for were forend hopelessly fouled; appearently the net pluced a bank, allowing the win to see in dock, as 1500 fins. of water an indicated on all sides I the spot on chart.

notes below not like intendin dudge table or on statem shuls;

Carcharines commersonis & (shipisale) No Spiracles bength 180 cm Uppercaud libe 60

Snort-1st dor 66 1st dor - 2 mil dor 48

2ndor-cardnotch 15

Snout-Pectoral 52

Pect-Vintral 58

Vent'l-Anal 19 Anal -card notch 11

1st dar base 22

" width 30 2 nd dor base 7

" height 9

width 16 Pect, base 14 height 48

48 " width 23

Ventralbase 12

Anal base height

tips 1st dot + caud mottled whitish ventrals, anala Tip 2"dor dK under side pecturass +

rentrals mottled

Luner " loba 30 Snout-mouth 13/2

Gape 21 Snout-nostril 10

Jaws in alc (TinTag # 11272) Skin salted ( " # 11273)

Nostril-pupil 9 Pupil vertical Nostril=orbit

Upper parts dkgy, lower whitish

Last gill-slit overpect.

12/2 14/2 width

Hour: 7:00 A . M. to 8:46 A . M.

Position: Lat. 70 24° 24' 00" | Long. 83° 18' 00" | W

Locality: SE of Dry Tortugas

Depth: 176 miles, Bottom: Wh M Sample: 20

Wind: Direction, Force, / Sea: prooth

TEMPERATURES

Depth melis	Thermometer—Make and No.	Reading \$26.7	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Boille used
100	NZ 20876 R11498 NZ 20872 R11500 NZ 165868 R11497	25.84	25.0	-13	20.02	~	4

				,		
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
- 1						
1						
1						
i						

Color of water: Blue

Transparency:

REMARKS: E. Leil

20	TIME	G
metus	Down Up	Speed
150-0	AM	
150-0	8:01 8:4	10
) 500	5:01 5:3	7
} 。	71.55 8134	0
	150-0 150-0 ) 50 0	150-0 S:01 S:3

NOTES Bottom & meter rute towned 30 min Orugan rute towned 35 min

all houls very rich

Station No. C 20030 Date: Nov. 24 1919

Hour: 4:00 P . M. to 5; 4/0 P . M.

Position: Lat. To 24° 25' 00" N Long. 82° 58' 00" W

Locality: S of sry Tortugas

Depth: 87 miles Bottom: wh M Sample: 4112.75

Wind: Direction, Force,

Sea:

		TEMI	PERATURE	S			
Depth 	Thermometer-Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle
		;				1	

Hour	Tide	Time down	Revolutions	Speed	Direction
	Hour	Hour Tide	Hour Tide Time down	Hour Tide Time down Revolutions	Hour Tide Time down Revolutions Speed

Color of water:

Transparency:

REMARKS: Eleci poli, on opper

Description	Depth	TIN	1E	Speed
	Деріц	Down	Up	Speed
9 Tres (ag la) + much face		PI	η	
9 Jun (agfe) + multage cable out 300 forms	bottom	4130	5:40	
•				
		1		
		1		

Frank town 45 min one pide of fram parted and whole frame mas crumpbed begind reference. Brought up 2 3 cu ft white much, with mouns, mothers to construcce

Hour: 10:06 P .M. to 11:23 P .M.

Position: Lat. From 24 23 'CO Long. 82'2/

Locality: Mid way between by Lorlings, + Key West

Depth: 72 m Bottom: 11h M Sample: #11781

Wind: Direction, E Force, 2

Sea: prooth

		A ASIVA.	E EMAI ONE	,			
Depth helis	Thermometer—Make and No.	Reading \$26.4	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
30	N7 208 16 R 11148 NZ 20872 R 11500 NJ 16(568 R 11497	25.88	25.0	-02	24.25		5 4 6

Hour	Tide	Time down	Revolutions	Speed	Direction
				opeed	Direction

Color of water:

REMARKS: E.L. A. A.

Depth	Down	Up	Speed		
		Ar	Speed		
60-0	,				
60 0	10:47	11:23			
30-0	10:47	11;20			
6	10:50	11;20			
	60 0	60 0 10:47 30-0 10:47	60 0 10/117 11:23 30-0 10:47 11:20		

Bottom, i neter o surface notes towned 30 min

Vertical haul fair and RO other Land may read

Hour: 9:30 1 . M. to //130 1 . M. approximate Position: Lat. 24 24 30 1 Long. 81 3 3 30 " pr Locality: Cape Canapeal, fla Depth: Bottom: Sample: Force, Wind: Direction, Sea: Sky: TEMPERATURES Sample Thermometer Make and No. Stem Temp. Correc-Corrected Temp. Bottle Depth Reading W. CURRENTS Depth Hour Tide Time down Revolutions Direction Speed

Color of water:

Transparency:

REMARKS:

11-5314

Depth	TIME		Speed
Depin	Down	Up	Speed
	1		
	1 .		
	Jeyn		Down Up

Two hauls were made with 35' chainly transf from motor launch, a bright below Cape Canarello, Naul;

Christ 3/4 bushel squid few bilarid. Chaperd, chaperd.

trichered, carangid, stromeated.

sevanid

gener Bindiella Cyproscion La rimu

Le estome. Menticinhers Dellipes

plemonetis.

			1/				
Station	No. e 20	033	Date:	Sec !	r		1919
Hour:		. M. to		. M.			
Position	n: Lat.		Lo	ng.			
Locality	: Fernas	nding	hb.	76			
Depth:		Bottom:			Sample:		
Wind:	Direction,		Force,				
Sea:			Sky:				
		TEM	PERATURE	S	and a contract of the contract		
Depth	Thermometer—   Make and No.	Reading	Stem Temp.	Correc-	Corrected Temp.	W. Sample	Bottle used
Depth	Hour			Revolutions	Speed	Dia	ecction
Color of w	ater:		Transpare	ency:			
REMARE	S:					1153	1.4

11-5314

NETS	, ETC., USED			
Description	Depth	TIME		Speed
	Deptil	Down	Up	Speed
	1			
11-5314	NOTES		u a.m.	
a few harely or	rade m	iel:	3.5'	brines
have from motor	laun.	0	11	Trans.
ti harbor.	- 400	h,		morney
Haul:				
	1 1-			
Thomy morete	vais.	nu	mi	Try
fishes, all some	redo,	refor	enen	1-7
following - name	d ges	nera	-	
Brishelle				
Cycuscum				
a clinger				
Second house				
in the contraction	,	, .		
11		( )		
11 11	1			
n '				
plia Proper H				
$n_{\rm p}$				

Hour: 11:50 A.M. to 12:47 P.M.

Position: Lat. 30 "45' 45"N Long. 81 20 '00" W

Locality: 2-3 mi of Fernanding hb, Fla

Depth: 13 m Bottom: HM Sample: 4/1298

Wind: Direction, SExS Force, 1/12
A11-74-Sea: proth

Sky: light clouds

Depth whis	Thermometer—Make and No.	Reading (18.44	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
10	NZ 20876 R 11498	×18.48	21.0	-06	18.42	•	5

TEMPERATURES

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
***************************************					-4	
1		İ				
						1

Color of water:

NETS, ETC., USED

Description	Depth	TIMI	Speed
· Description	meter	Down	Up
Botton rut ( cable out 3	om) bottom	12:11	2547
# 20 1/2 muter	0.00	12:201.	2:50

all ruts towed 30 min

all hands with

Station No. C 20035 Date: Sec 9 1019 Hour: 7:50 A. M. to 1:30 P. M. Position: Lat. 32°10′15°N Long. 79 07'00 W Locality: 100 fm line, of Charleston, P.C. Depth: 111 m Bottom: gm M S Sample: #11299 Wind: Direction, S Force, 2 Air 75 Sea: choppy Sky: Cloudy / shower.) TEMPERATURES Thermometer --Reading metu, B. S. # 123.1 5011/65868 22.67 23.5 -17 22.45 -R 11497 22.53 23.0 -08 22.45 100N2208140 R11499 x 15.71 23.0 -15 15.56 150 NJ 70872. R11500 x 14.47 23.0 -19 14.28 200NZ 20876 R 11498 . 13.41 23.0-20 13.21 CURRENTS Depth Hour Tide Time down Revolutions Speed Direction Color of water: Transparency:

REMARKS: Elect set, or por la

11-5914

ETC., USED			
Donth	TI	Cased	
Беріп	Down	Up	Speed
botton	9:20	9:50	
bottom	AM	1. PM	
	11:00	1:30	
0	11:45	12:30	
	Depth botton	Depth Down  Lotton Ai  rinfer 9:20  Anthropology  bottom 11:00	Depth Down Up  bottom A/M  infer 9:20 9:50  RM PM

5' Tur towed 25 min

75' flounder travel toward 2 hrs Dueface nuts towned 1/5 mm. I'day hand senity

Flounder, few crienter cans +mollust. few sexceeds, many brittle, stans, few squid, 3 fishes Durfare hauls fair - micro

"issells of the travel hard indicate barren bottom - the bottom prossibly too hard

Hour: 8:30 A. M. to 10:30 A. M. approximate

Position: Lat. 33°51'15" N Long. 78°05'15' N

Locality: Cape Fra

Depth: 6 fins Bottom: Sample:

Wind: Direction, NW Force, 1

Sea: proth Sky: cloudy

Depth neters	Thermometer—Make and No.	Reading - \$15.3	Stem Temp.	Correc- tion	Corrected Temp.	W. Sampl	Bottle used
10	NZ 165868 R 11497	0111,70 ×14,55	17.0	-18	14.52	-	6

-			CURRENTS			
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
				ĺ		

Color of water:

Transparency:

REMARKS:

Description	Description Depth		ME	Speed	
, Description		Down	Up	- Speci	
	William of the control of the contro				

35' shrimp trival towned from

Hour: 5;55 P. M. to 9:05 P. M.

Position: Lat. 70 33° 34' 15" N Long. 76° 41' 00" W

Locality:

Depth: 210 m Bottom: S, Sh Sample:

Wind: Direction, Sx E t SE Force, 3-4

A11-74

Sea: heavy

Sky: partly cloudy TEMPERATURES

Depth	Thermometer Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0		72 0				/	
		1					
	!						
	and the same of						
				1			

CURRENTS							
Hour	Tide	Time down	Revolutions	Speed	Direction		
	Hour	Hour Tide		Hour Tide Time down Revolutions	Hour Tide Time down Revolutions Speed		

Color of water:

Transparency:

REMARKS: Elect och, supr li

	.,,				
Description	Depth	TIN	AE	Speed	
,	2.7	Down	Up	-,	
7: 11. de travel		PI	7		
75 flounder travel cable out 325 for	bottom	6:10	9:05		
		0,40	//		

Frank Town 1 h 41 min

Hour: .M. to .M.

Throughout the morning
Position: Lat. 34°34′30°N Long. 76°36′30°W

Locality: Cape Soutout

Sea: mooth

Depth: 9 for Bottom:

Sample:

Wind: Direction, S Force, 1 Air 69-63

Sky: cloudy & SF

Depth celes	Thermometer Make and No.		Stem Temp.	Correc- tion	Corrected Temp.	W. Sami	Bottle used
15	NZ 161868 R 11497	13.66 × 13.30	17.0	-19	13.47		4
	Y T						

TEMPERATURES

			CURRENTS			
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

REMARKS: Temperatures + water samples 11-10115 time it melong, bill aim

Depth	Down	Up	Speed

35 shrump travel towed from

Sample:

Corrected Temp.

used W.

1/4

Position: Lat. 70 34° 47' 30" N Long. 75° 45' 30" W

Force, 1/

Sky: cloudy (rais)

Correc-

Air 71-7

TEMPERATURES

50 NZ 165868 24.58 24.0 -14 24.44 - 6

Reading Stem Temp.

Hour: 5:45P. M. to 1/10 P. M.

Locality:

meter

0

Depth: 316 m Bottom:

Thermometer Make and No.

Wind: Direction.

Sea: heavy

100 NZ 20874		23,5	-05	24.45	
R 11499		23.1	-02	23.19	,
175 NZ 20872					14
R11500		13.5	-11	19.02	
250 NZ 20876			1.000		15
R11498	12.39	23,0	-22	12.17	
				4	
			1		
			1		
		V VWWWWW			
	С	URRENTS			
Depth Hour	Tide	Time down	Revolutions	Speed	Direction
Color of water:		Transpa	rency:		-
REMARKS: Elect	role	andia	11		11-5314
# although	massen	com	10 10 11	une to	-sel
the indicates	is 7 de	est m	ine as	+ 316	neti.
vas that botto					
-11 contour,				Police	4
Ministra	e. ) a.	este 10	6		

Depth	Down P/	η	Speed
falton	PI	η	
	7:30	9:55	
0	7:30	8115	
			0.00

Jawl towed I has Dufan nut towed 45 min.

" so ret fouled in trains caple and Com, content, lost.

12 meter hand with a strong, mucro.

Travel showed to eightener of how of touched bottom; say at 10:30 pm. ohnould so fine with the conduction in that water was fruch steeper thou was prepared, and with only 355 four of able, the travel was at no time on bottom.

Hour: 9:10 A. M. to 9:15 A . M.

Position: Lat. 35° /6' 30" 11 Long. 75° 25' /5

Locality: Cape Hatteras

Depth: 19 m Bottom: gy 5, M Sample:

Wind: Direction, SW Force, 2 Sea: choppy

Sky: cloudy

TEMPERATURES Stem Temp. Thermometer -- Make and No. Corrected Temp. Bottle Depth Reading Make and 140. B. S. ★ - 1-2 8 used meters × 18 NJ 165868 13.20 15.0 -16 13.04 P R11497 13.31 15.0 -07 13.24

CHERENTS

			COMMEDIA	1 Property Bay		
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
			1			

Color of water:

REMARKS:

Transparency:

11-5314

70	TIME		Speed	
Depth	Down	Up	Speed	
	Depth	Depth	Depth	

11-5314

Station	No.		Date:				191
Hour:		M. to		. M.			
Position	1: Lat.		Lor	ıg.			
Locality	*						
Depth:		Bottom:			Sample:		
Wind:	Direction,		Force,				
Sea:			Sky:				
		TEM	PERATURE	,			
Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
	THE PARTY OF THE P						

CHDDDDMM

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
			-			-
				1		

Color of water:

Transparency:

REMARKS:

, Description	Depth	TIN	TIME	
, Description	Deptil	Down	Up	Speed

11-5814

Cini	1000	No.
Dia	1011	140.

Date:

191

Hour: . M. to

Position: Lat.

Long.

. M.

Locality:

Depth:

Bottom:

Sample:

Wind: Direction,

Force,

Sea: Sky:

	TEMPERATURES							
Depth	Thermometer— Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle		
			1					
			* 000 mm					

#### CHIDDENES

Hour	Tide	Time down	Revolutions	Speed	Direction
	Hour	Hour Tide			Hour Tide Time down Revolutions Speed

Color of water:

Transparency:

REMARKS:

11-5314

Description	Depth	TIME		Speed	
Description ,	Depin	Down	Up	Speed	

11-5314

Station No.	

Date:

191

Hour:

. M. to

. M.

Position: Lat.

Long.

Locality:

Depth:

Bottom: Sample:

Wind: Direction,

Force,

Sea:

Sky: TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used

Depth	Hour	Tide	Revolutions	Speed	Direction
				* *************************************	

Color of water:

Transparency:

REMARKS:

. 11-5314

Description	Depth	TIP	Speed	
Description ,	Depin	Down	Up	Speed

11-5414

Station	Wo		Date:				101
Station	No.		Date:				191
Hour:		M. to		. M.			
Position	ı: Lat.		Lo	ong.			
Locality	• •						
Depth:		Bottom:		Arts or a free photo	Sample:		
Wind:	Direction,		Force,				
Sea:			Sky:				
		TE	MPERATURI	ES			
Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
Depth	Hour	Tide	CURRENTS Time down	Revolutions	Speed	DI	rection

Color of water:

Transparency:

Description	Depth	TIT	TIME		
/		Down	Up	Speed	

11-5:14

Sta	tion	No.

REMARKS:

Date:

191

11-5314

Hour: . M. to . M. Position: Lat. Long. Locality: Depth: Bottom: Sample: Wind: Direction, Force, Sea: Sky: TEMPERATURES W. Sample Thermometer— Reading Stem Temp. Correc-tion Corrected Temp. Bottle Depth CURRENTS Depth Hour Tide Time down Revolutions Speed Direction Color of water: Transparency:

Death	TIME	Speed
— Depair	Down   Up	Speed
	Depth	Depth

11-5014

CURRENTS  Depth Hour Tide Time down Revolutions Speed Direct  Color of water:	Station	No.		Date:				191
Depth: Bottom: Sample:  Wind: Direction, Force,  Sea: Sky:  TEMPERATURES  Depth Thermometer— Reading Stem Temp. Corrected Itlen Temp. Reading Stem Temp. Corrected Temp. Reading Stem Temp. Corrected Temp. Reading Stem Temp.	Hour:		. M. to		. M.			
Depth: Bottom: Sample:  Wind: Direction, Force,  Sea: Sky:  TEMPERATURES  Depth Make and No. Reading Stem Corrected Itlen Temp. Itlen Itlen Temp.  CURRENTS  CURRENTS  Depth Hour Tide Time down Revolutions Speed Direct Corrected Itlen	Position	ı: Lat.		Lo	ng.			
Wind: Direction, Force,  Sea: Sky:  TEMPERATURES  Depth Thermometer— Reading Stem Temp. Corrected Temp. Direction Temp.  CURRENTS  Depth Hour Tide Time down Revolutions Speed Direction Corrected Temp.	Locality	:						
Sea: Sky:  TEMPERATURES  Depth Thermometer— Reading Stem Temp. Corrected Temp.  CURRENTS  Depth Hour Tide Time down Revolutions Speed Direct Corrected Temp.  Color of water: Transparency:	Depth:		Bottom:			Sample:		
Depth Thermometer— Reading Stem Corrected Item.  CURRENTS  CURRENTS  Depth Hour Tide Time down Revolutions Speed Direct	Wind:	Direction,		Force,				
Depth Thermometer—Reading Stem Temp. Corrected Temp.  CURRENTS  Currents  Depth Hour Tide Time down Revolutions Speed Direct	Sea:			Sky:				
CURRENTS  Depth Hour Tide Time down Revolutions Speed Direct			TEM	PERATURE	S			
CURRENTS  Depth Hour Tide Time down Revolutions Speed Direct  Transparency:	Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	V. Sample	Bottle used
Depth Hour Tide Time down Revolutions Speed Direct								
Depth Hour Tide Time down Revolutions Speed Direct			CI	JRRENTS				
	Depth	Hour			Revolutions	Speed	Di	rection
	Color of			Transcri	100.7 No.			
REMARKS:				Transpar	ency:			

Description	Depth		TIME		
/ /	Depart	Down	Up	Speed	
* *************************************					
	1				

11-5814

CURRENTS	Station	No.		Date:			191
Depth: Bottom: Sample:  Wind: Direction, Force,  Sea: Sky:  TEMPERATURES  Depth Make and No. Reading Stem Temp. Corrected Temp. B u	Hour:		M. to		. M.		
Depth: Bottom: Sample:  Wind: Direction, Force,  Sea: Sky:  TEMPERATURES  Depth Thermometer— Reading Stem Temp. Corrected Temp. Depth Make and No. Reading Temp. Corrected Union Temp. Corrected Temp. Depth Temp. Corrected Temp. Depth Temp. Depth Temp. Depth Temp. Depth Temp. Depth Temp. Corrected Temp. Depth Temp. Dep	Position	1: Lat.		L	ong.		
Wind: Direction,  Sea: Sky:  TEMPERATURES  Depth Thermometer— Reading Stem Temp. Corrected Ition Temp.	Locality	r:					
Sea: Sky:  TEMPERATURES  Depth Thermometer— Reading Stem Temp. Corrected Temp. Depth Temp. Corrected Temp. Depth Temp. Corrected Temp. Depth Temp. Dep	Depth:		Bottom:			Sample:	
Depth Thermometer— Reading Stem Temp. Corrected Ition Temp.	Wind:	Direction,		Force,			
Depth Thermometer— Reading Stem Temp. Carrected In Temp.	Sea:			Sky:			
CURRENTS			TEN	IPERATURI	ES		
	Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc-	Corrected Temp.	Bottle used
				WIND PANCE			
	Depth	Hour			Revolutions	Speed	Direction

Transparency:

11-5314

Color of water:

REMARKS:

	TIT	TIME	
Depth	Down	f1b	Speed
	Depth	Depth Down	Depth Down Up

11-5314

H	our	:

. M. to

. M.

Position: Lat.

Wind: Direction,

Long.

Locality:
Depth:

Bottom:

Sample:

Sea:

Force,

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sampl	Bottle used
			1				
			-				
	6						
	1	(	CURRENTS				
Depth	Hour	Tide	Time down	Revolutions	Speed	Di	rection

	CURRENTS									
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction				
	1. 0									
-										
						100				

Color of water:

Transparency:

REMARKS:

11-5314

Description	Depth	TIME		
Description		Down	Up	Speed
			-	
11-5314	NOTES			

Hour:

. M. to

. M.

Position: Lat.

Wind: Direction,

Long.

Locality: Depth:

Bottom:

Sample:

Sea:

Force, Sky:

# TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc-	Corrected Temp.	W. Sample	Bottle used

	CURRENTS					
Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
						- 1
						- 11

Color of water:

Transparency:

REMARKS:

11-5314

Description	Depth	TIME		Speed
Description	Depth	Down	Up	Speed

11-5314